odoo

Open Source CMS
A performance comparision

Mantavya Gajjar – Managining Director, OpenERP India

Topics

- Introduction
  - Products to Compare
  - Test Environment
- Test Cases (home, catalogue, product pages)
  - Performance
    - Google PageSpeed Inside
    - Speed Test using Pingdom
  - Scalability
    - Load Test using Blitz
  - Maintainability
    - Source Code – cloc
    - Community to maintain the source code
  - W3C Markup Validations
- Conclusion

Introduction

Open Source Products, compared with Odoo

Odoo

- Version Saas4

- Standard Data / Modules

  - Demo data with Odoo Website, Commerce, Forum, News, etc

odoo
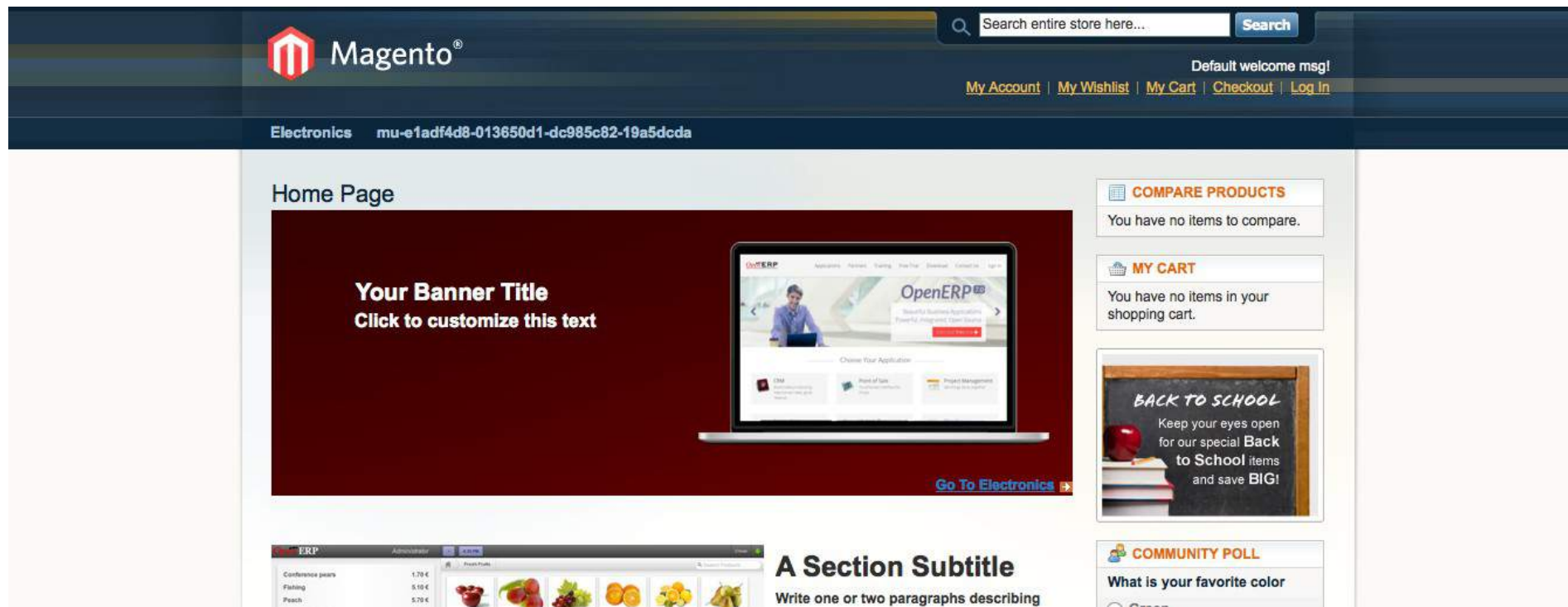
- Version 1.8.1.0

- Custom Data / Module

  - Home page and widgets

  - Added some products and their description

Drupal

- Version 7.27

- Custom Data / Modules

  - CK-Editor & CK-Finder

  - Ubercart for e-commerce, Rules, ctools, views, entity

Prestashop

- Version 1.6

- No Custom Data / Modules
  - Use default demo shop

odoo

Performance

Google PageSpeed Insight & Pingdom

Google PageSpeed Insights

Home page on desktop

Computed by Google Page Speed Insight :

https://developers.google.com/speed/pagespeed/insights/

odoo

Odoo vs Drupal

Using: Google PageSpeed Insights	Odoo (ver. Saas4)	Drupal (ver. 7.27)
Home Page	89 Rating	85 Rating
Render-blocking JavaScript ?	1	3
Render-blocking CSS ?	1	11
Minify Javascript	✔	✘
Minify CSS	✔	✘
Minify HTML	✔	✔
Leverage browser caching	✔	✘
Avoid landing page redirects ?	✔	✔
Fast Response Time	✔	✘

Computed by Google Page Speed Insight : https://developers.google.com/speed/pagespeed/insights/

Rating is out of 100

odoo

Odoo vs Magento

Using: Google PageSpeed Insights	Odoo (ver. Saas4)	Magento (ver. 1.8.1.0)
🖥 Home Page	89 Rating	76 Rating
Render-blocking JavaScript ?	1	13
Render-blocking CSS ?	1	2
Minify Javascript	✓	✗
Minify CSS	✓	✗
Minify HTML	✓	✓
Leverage browser caching	✓	✗
Avoid landing page redirects ?	✓	✓
Fast Response Time	✓	✗

Computed by Google Page Speed Insight : https://developers.google.com/speed/pagespeed/insights/

Rating is out of 100

Odoo vs Prestashop

Using: Google PageSpeed Insights	Odoo (ver. Saas4)	Prestashop (ver. 1.6.0.6)
🖥 Home Page	89 Rating	66 Rating
Render-blocking JavaScript ?	1	0
Render-blocking CSS ?	1	25
Minify Javascript	✔	✘
Minify CSS	✔	✘
Minify HTML	✔	✘
Leverage browser caching	✔	✘
Avoid landing page redirects ?	✔	✔
Fast Response Time	✔	✘

Computed by Google Page Speed Insight : https://developers.google.com/speed/pagespeed/insights/

Rating is out of 100

odoo

Summary : Google Page Speed

Using: Google PageSpeed Insights	Odoo (ver. Saas4)	Drupal (ver. 7.27)	Magento (ver. 1.8.1.0)	Prestashop (ver. 1.6.0.6)
Home Page	89 Rating	85 Rating	76 Rating	66 Rating
Render-blocking JavaScript ?	1	3	13	0
Render-blocking CSS ?	1	11	2	25
Minify Javascript	✓	✗	✗	✗
Minify CSS	✓	✗	✗	✗
Minify HTML	✓	✓	✓	✗
Leverage browser caching	✓	✗	✗	✗
Avoid landing page redirects ?	✓	✓	✓	✓
Fast Response Time	✓	✗	✗	✗

Computed by Google Page Speed Insight : https://developers.google.com/speed/pagespeed/insights/

Rating is out of 100

Google Page Speed Insights

Home page on mobile

Computed by Google Page Speed Insight :

https://developers.google.com/speed/pagespeed/insights/

Odoo Vs Drupal

Using: Google PageSpeed Insights	Odoo (ver. Saas4)	Drupal (ver. 7.27)
Home Page	User Exp. : 99 Rating Speed: 71 Rating	User Exp. : 88 Rating Speed: 68 Rating
Legible Font Size	✔	✔
Size tap targets appropriately	✔	✘
Viewport Configured	✔	✔
Viewport Content size	✔	✘

Computed by Google Page Speed Insight : https://developers.google.com/speed/pagespeed/insights/

Rating is out of 100

Odoo Vs Magento

Using: Google PageSpeed Insights	Odoo (ver. Saas4)	Magento (ver. 1.8.1.0)
Home Page	User Exp. : 99 Rating Speed: 71 Rating	User Exp. : 58 Rating Speed: 64 Rating
Legible Font Size	✓	✗
Size tap targets appropriately	✓	✗
Viewport Configured	✓	✗
Viewport Content size	✓	✓

Computed by Google Page Speed Insight : https://developers.google.com/speed/pagespeed/insights/

Rating is out of 100

Odoo Vs Prestashop

Using: Google PageSpeed Insights	Odoo (ver. Saas4)	Prestashop (ver. 1.6.0.6)
📱 Home Page	User Exp. : 99 Rating Speed: 71 Rating	User Exp. : 99 Rating Speed: 55 Rating
Legible Font Size	✓	✓
Size tap targets appropriately	✓	✗
Viewport Configured	✓	✓
Viewport Content size	✓	✓

Computed by Google Page Speed Insight : https://developers.google.com/speed/pagespeed/insights/

Rating is out of 100

Summary : Google Page Speed

Using: Google PageSpeed Insights	Odoo (ver. Saas4)	Drupal (ver. 7.27)	Magento (ver. 1.8.1.0)	Prestashop (ver. 1.6.0.6)
📱 Home Page	User Exp. : 99 Rating Speed: 71 Rating	User Exp. : 88 Rating Speed: 68 Rating	User Exp. : 58 Rating Speed: 64 Rating	User Exp. : 99 Rating Speed: 55 Rating
Legible Font Size	✓	✓	✗	✓
Size tap targets appropriately	✓	✗	✗	✗
Viewport Configured	✓	✓	✗	✓
Viewport Content size	✓	✗	✓	✓

Computed by Google Page Speed Insight : https://developers.google.com/speed/pagespeed/insights/

Rating is out of 100

Google PageSpeed Insights

Product Catalogue on Desktop

Computed by Google Page Speed Insight :

https://developers.google.com/speed/pagespeed/insights/

Odoo Vs Drupal

Using: Google PageSpeed Insights	Odoo (ver. Saas4)	Drupal (ver. 7.27)
Product Catalog	84 Rating	89 Rating
Render-blocking JavaScript ?	3	4
Render-blocking CSS ?	3	10
Minify Javascript	✗	✗
Minify CSS	✗	✗
Minify HTML	✓	✓
Leverage browser caching	✓	✗
Avoid landing page redirects ?	✓	✓
Fast Response Time	✓	✗

Computed by Google Page Speed Insight : https://developers.google.com/speed/pagespeed/insights/

Rating is out of 100

odoo

Using: Google PageSpeed Insights	Odoo (ver. Saas4)	Magento (ver. 1.8.1.0)
🖥️ Product Catalog	84 Rating	71 Rating
Render-blocking JavaScript ?	3	13
Render-blocking CSS ?	3	2
Minify Javascript	✘	✘
Minify CSS	✘	✘
Minify HTML	✔	✔
Leverage browser caching	✔	✘
Avoid landing page redirects ?	✔	✔
Fast Response Time	✔	✘

Computed by Google Page Speed Insight : https://developers.google.com/speed/pagespeed/insights/

Rating is out of 100

Odoo Vs Prestashop

Using: Google PageSpeed Insights	Odoo (ver. Saas4)	Prestashop (ver. 1.6.0.6)
🖥️ Product Catalog	84 Rating	63 Rating
Render-blocking JavaScript ?	3	0
Render-blocking CSS ?	3	30
Minify Javascript	✗	✗
Minify CSS	✗	✗
Minify HTML	✓	✗
Leverage browser caching	✓	✗
Avoid landing page redirects ?	✓	✓
Fast Response Time	✓	✗

Computed by Google Page Speed Insight : https://developers.google.com/speed/pagespeed/insights/

Rating is out of 100

Summary : Google Page Speed

Using: Google PageSpeed Insights	Odoo (ver. Saas4)	Drupal (ver. 7.27)	Magento (ver. 1.8.1.0)	Prestashop (ver. 1.6.0.6)
Product Catalog	84 Rating	89 Rating	71 Rating	63 Rating
Render-blocking JavaScript ?	3	4	13	0
Render-blocking CSS ?	3	10	2	30
Minify Javascript	✘	✘	✘	✘
Minify CSS	✘	✘	✘	✘
Minify HTML	✔	✔	✔	✘
Leverage browser caching	✔	✘	✘	✘
Avoid landing page redirects ?	✔	✔	✔	✔
Fast Response Time	✔	✘	✘	✘

Computed by Google Page Speed Insight : https://developers.google.com/speed/pagespeed/insights/

Rating is out of 100

Google PageSpeed Insights

Product Catalogue on Mobile

Computed by Google Page Speed Insight :

https://developers.google.com/speed/pagespeed/insights/

Odoo Vs Drupal

Using: Google PageSpeed Insights	Odoo (ver. Saas4)	Drupal (ver. 7.27)
Product Catalog	User Exp. : 98 Rating Speed: 68 Rating	User Exp. : 86 Rating| Speed: 73 Rating
Legible Font Size	✓	✓
Size tap targets appropriately	✓	✗
Viewport Configured	✓	✓
Viewport Content size	✓	✗

Computed by Google Page Speed Insight : https://developers.google.com/speed/pagespeed/insights/

Rating is out of 100

Odoo Vs Magento

Using: Google PageSpeed Insights	Odoo (ver. Saas4)	Magento (ver. 1.8.1.0)
Product Catalog	User Exp. : 98 Rating Speed: 68 Rating	User Exp. : 59 Rating Speed: 59 Rating
Legible Font Size	✓	✗
Size tap targets appropriately	✓	✗
Viewport Configured	✓	✗
Viewport Content size	✓	✓

Computed by Google Page Speed Insight : https://developers.google.com/speed/pagespeed/insights/

Rating is out of 100

Odoo Vs Prestashop

Using: Google PageSpeed Insights	Odoo (ver. Saas4)	Prestashop (ver. 1.6.0.6)
📱 Product Catalog	User Exp. : 98 Rating Speed: 68 Rating	User Exp. : 99 Rating Speed: 48 Rating
Legible Font Size	✓	✓
Size tap targets appropriately	✓	✗
Viewport Configured	✓	✓
Viewport Content size	✓	✓

Computed by Google Page Speed Insight : https://developers.google.com/speed/pagespeed/insights/

Rating is out of 100

Summary : Google Page Speed

Using: Google PageSpeed Insights	Odoo (ver. Saas4)	Drupal (ver. 7.27)	Magento (ver. 1.8.1.0)	Prestashop (ver. 1.6.0.6)
Product Catalog	User Exp. : 98 Rating Speed: 68 Rating	User Exp. : 86 Rating Speed: 73 Rating	User Exp. : 59 Rating Speed: 59 Rating	User Exp. : 99 Rating Speed: 48 Rating
Legible Font Size	✔	✔	✘	✔
Size tap targets appropriately	✔	✘	✘	✘
Viewport Configured	✔	✔	✘	✔
Viewport Content size	✔	✘	✔	✔

Computed by Google Page Speed Insight : https://developers.google.com/speed/pagespeed/insights/

Rating is out of 100

odoo

Google PageSpeed Insights

Product Page on Desktop

Computed by Google Page Speed Insight :

https://developers.google.com/speed/pagespeed/insights/

odoo

Odoo Vs Drupal

Using: Google PageSpeed Insights	Odoo (ver. Saas4)	Drupal (ver. 7.27)
Product Form	89 Rating	87 Rating
Render-blocking JavaScript ?	2	4
Render-blocking CSS ?	3	10
Minify Javascript	✔	✘
Minify CSS	✔	✘
Minify HTML	✔	✔
Leverage browser caching	✔	✘
Avoid landing page redirects ?	✔	✔
Fast Response Time	✘	✔

Computed by Google Page Speed Insight : https://developers.google.com/speed/pagespeed/insights/

Rating is out of 100

Odoo Vs Magento

Using: Google PageSpeed Insights	Odoo (ver. Saas4)	Magento (ver. 1.8.1.0)
🖥 Product Form	89 Rating	70 Rating
Render-blocking JavaScript ?	2	17
Render-blocking CSS ?	3	3
Minify Javascript	✔	✘
Minify CSS	✔	✘
Minify HTML	✔	✔
Leverage browser caching	✔	✘
Avoid landing page redirects ?	✔	✔
Fast Response Time	✘	✘

Computed by Google Page Speed Insight : https://developers.google.com/speed/pagespeed/insights/

Rating is out of 100

Odoo Vs Prestashop

Using: Google PageSpeed Insights	Odoo (ver. Saas4)	Prestashop (ver. 1.6.0.6)
🖥 Product Form	89 Rating	58 Rating
Render-blocking JavaScript ?	2	0
Render-blocking CSS ?	3	27
Minify Javascript	✔	✘
Minify CSS	✔	✘
Minify HTML	✔	✘
Leverage browser caching	✔	✘
Avoid landing page redirects ?	✔	✔
Fast Response Time	✘	✘

Computed by Google Page Speed Insight : https://developers.google.com/speed/pagespeed/insights/

Rating is out of 100

Summary : Google Page Speed

Using: Google PageSpeed Insights	OpenERP (ver. Saas4)	Drupal (ver. 7.27)	Magento (ver. 1.8.1.0)	Prestashop (ver. 1.6.0.6)
🖥 Product Form	89 Rating	87 Rating	70 Rating	58 Rating
Render-blocking JavaScript ?	2	4	17	0
Render-blocking CSS ?	3	10	3	27
Minify Javascript	✔	✘	✘	✘
Minify CSS	✔	✘	✘	✘
Minify HTML	✔	✔	✔	✘
Leverage browser caching	✔	✘	✘	✘
Avoid landing page redirects ?	✔	✔	✔	✔
Fast Response Time	✘	✔	✘	✘

Computed by Google Page Speed Insight : https://developers.google.com/speed/pagespeed/insights/

Rating is out of 100

Google PageSpeed Insights

Product Page on Mobile

Computed by Google Page Speed Insight :

https://developers.google.com/speed/pagespeed/insights/

Odoo Vs Drupal

Using: Google PageSpeed Insights	Odoo (ver. Saas4)	Drupal (ver. 7.27)
📱 Product Form	User Exp. : 96 Rating Speed: 71 Rating	User Exp. : 73 Rating Speed: 78 Rating
Legible Font Size	✔	✔
Size tap targets appropriately	✔	✖
Viewport Configured	✔	✔
Viewport Content size	✔	✖

Computed by Google Page Speed Insight : https://developers.google.com/speed/pagespeed/insights/

Rating is out of 100

odoo

Odoo Vs Magento

Using: Google PageSpeed Insights	Odoo (ver. Saas4)	Magento (ver. 1.8.1.0)
📱 Product Form	User Exp. : 96 Rating Speed: 71 Rating	User Exp. : 58 Rating Speed: 59 Rating
Legible Font Size	✔	✘
Size tap targets appropriately	✔	✘
Viewport Configured	✔	✘
Viewport Content size	✔	✔

Computed by Google Page Speed Insight : https://developers.google.com/speed/pagespeed/insights/

Rating is out of 100

Odoo Vs Preshashop

Using: Google PageSpeed Insights	Odoo (ver. Saas4)	Prestashop (ver. 1.6.0.6)
📱 Product Form	User Exp. : 96 Rating Speed: 71 Rating	User Exp. : 99 Rating Speed: 48 Rating
Legible Font Size	✓	✓
Size tap targets appropriately	✓	✗
Viewport Configured	✓	✓
Viewport Content size	✓	✓

Computed by Google Page Speed Insight : https://developers.google.com/speed/pagespeed/insights/

Rating is out of 100

odoo

Using: Google PageSpeed Insights	OpenERP (ver. Saas4)	Drupal (ver. 7.27)	Magento (ver. 1.8.1.0)	Prestashop (ver. 1.6.0.6)
Product Form	User Exp. : 96 Rating Speed: 71 Rating	User Exp. : 73 Rating Speed: 78 Rating	User Exp. : 58 Rating Speed: 59 Rating	User Exp. : 99 Rating Speed: 48 Rating
Legible Font Size	✔	✔	✘	✔
Size tap targets appropriately	✔	✘	✘	✘
Viewport Configured	✔	✔	✘	✔
Viewport Content size	✔	✘	✔	✔

Computed by Google Page Speed Insight : https://developers.google.com/speed/pagespeed/insights/

Rating is out of 100

odoo

Speed Test using Pingdom

Resources Loads to render page

odoo

Home Page	Odoo (ver. Saas4)	Drupal (ver. 7.27)	Magento (ver. 1.8.1.0)	Prestashop (ver. 1.6.0.6)
Performance Grade	91 / 100	87 / 100	85 / 100	59 / 100
Requests	14	37	38	103
# of JS	2	3	13	26
# of CSS	2	19	3	27

	Odoo	Drupal	Magento	Prestashop
Time Spent per State	Connect 35.57% Wait 32.79% Receive 31.20% DNS 0.42% Send 0.02%	Connect 48.73% Wait 38.52% Receive 12.10% DNS 0.61% Send 0.03%	Connect 51.44% Wait 28.97% Receive 17.25% DNS 2.04% SSL 0.26% Send 0.04%	Connect 84.52% Wait 11.67% Receive 3.28% DNS 0.47% SSL 0.05% Send 0.01%

As browser can load only 4 files in parallal on midsie traffic website, then latency time and number of resources to donwload impact time to load more resources

Odoo load **faster** because concatenate several files, minify and gzip the content, even all the modules installed

Product Catalogue	Odoo (ver. Saas4)	Drupal (ver. 7.27)	Magento (ver. 1.8.1.0)	Prestashop (ver. 1.6.0.6)
Performance Grade	89 / 100	87 / 100	85 / 100	75 / 100
# of Products on page	15	10	9	10
Requests	25	37	50	91
# of JS	4	4	13	28
# of CSS	4	19	3	30

Odoo — Time Spent per State
- Wait 38.91%
- Receive 37.39%
- Connect 23.67%
- DNS 0.02%
- Send 0.00%

Drupal — Time Spent per State
- Connect 57.15%
- Wait 35.69%
- Receive 6.82%
- DNS 0.32%
- Send 0.01%

Magento — Time Spent per State
- Connect 66.65%
- Wait 24.49%
- Receive 7.97%
- DNS 0.70%
- SSL 0.17%
- Send 0.02%

Prestashop — Time Spent per State
- Connect 83.93%
- Wait 14.09%
- Receive 1.93%
- DNS 0.05%
- Send 0.01%

Product Form	Odoo (ver. Saas4)	Drupal (ver. 7.27)	Magento (ver. 1.8.1.0)	Prestashop (ver. 1.6.0.6)
Performance Grade	84 / 100	87 / 100	86/ 100	58/ 100
Requests	13	31	54	74
# of JS	4	3	17	29
# of CSS	3	19	4	28
	Time Spent per State Receive 43.99% Wait 36.11% Connect 16.41% DNS 3.48% Send 0.00%	Time Spent per State Connect 42.82% Receive 28.61% Wait 27.41% DNS 1.13% Send 0.02%	Time Spent per State Connect 57.31% Receive 22.39% Wait 20.25% DNS 0.03% SSL 0.02% Send 0.01%	Time Spent per State Connect 82.74% Wait 14.72% Receive 2.06% DNS 0.47% Send 0.01%

odoo

Scaleablity

Using Blitz, simulate the 250 users

odoo

Load Test using Blitz

Region – Virginia | Duration – 60 Seconds | Load – 1 To 250 Users

Computed using Blitz: https://www.blitz.io

Magento, Prestashop, Drupa

- Ubuntu 14.04 latest LTS

- Apache 2.2 Server

- PHP 5 Framework

- MySQL Server 5.0

Odoo

- Ubuntu 14.04 latest LTS

- Nginx 1.4

- Odoo Framework

- PostgreSQL 9.1

Hardware Configuration

- IBM Server Series X3500 M4, 15 MB L3 Cache

- 300 GB GSAS Drive 10K RPMs

- Intel(R) Xeon(R) CPU E5-2620 0 @ 2.00GHz, 12 cores

- 8 GB Physical RAM

- 15 MBPS Dedicated Internet connection line

Network :

- 15 MBPS dedicated Internet connection

odoo
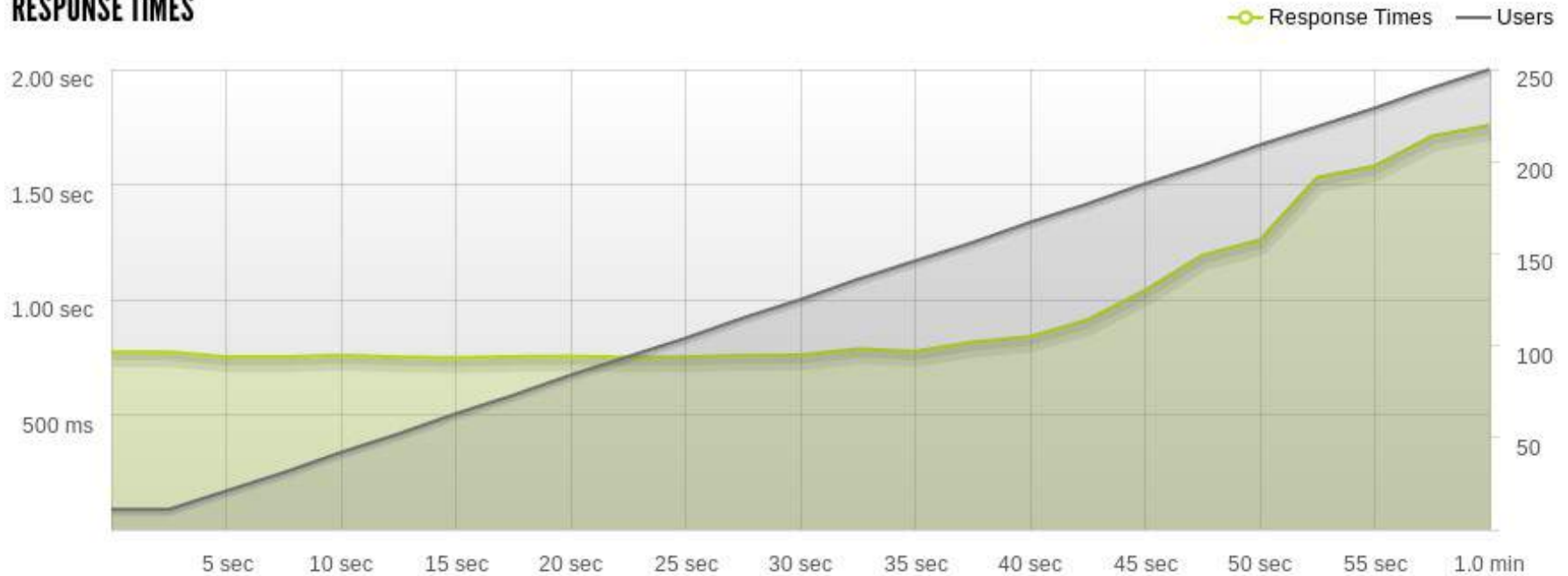
RESPONSE TIMES

Configuration :

Region – **Virginia** | Duration – **60 Seconds** | Load – **1 To 250 Users**

The max hit rate was: **88** hits per second

Website and Ecommerce apps installed

Odoo

Response Time :

- Fastest: **530 ms** | Slowest: **1655 ms** | Average: **829 ms**
- First time out happened at **47.4** second at **198** users
- **3646** successful hits in **60** sec, avg **52,45,920** hits/day capacity.

odoo

RESPONSE TIMES

Configuration :

Region – **Virginia** | Duration – **60 Seconds** | Load – **1 To 250 Users**

The max hit rate was : **37** hits per second

odoo

HIT RATE

Legend: Hits/sec, Errors/sec, Timeouts/sec

Response Time :

- Fastest: **1172 ms** | Slowest: **4943 ms** | Average: **2141 ms**

- First time out happened at **30** second at **125** users

- **1,083** successful hits in **60** sec, avg **15,59,520** hits/day capacity.

RESPONSE TIMES

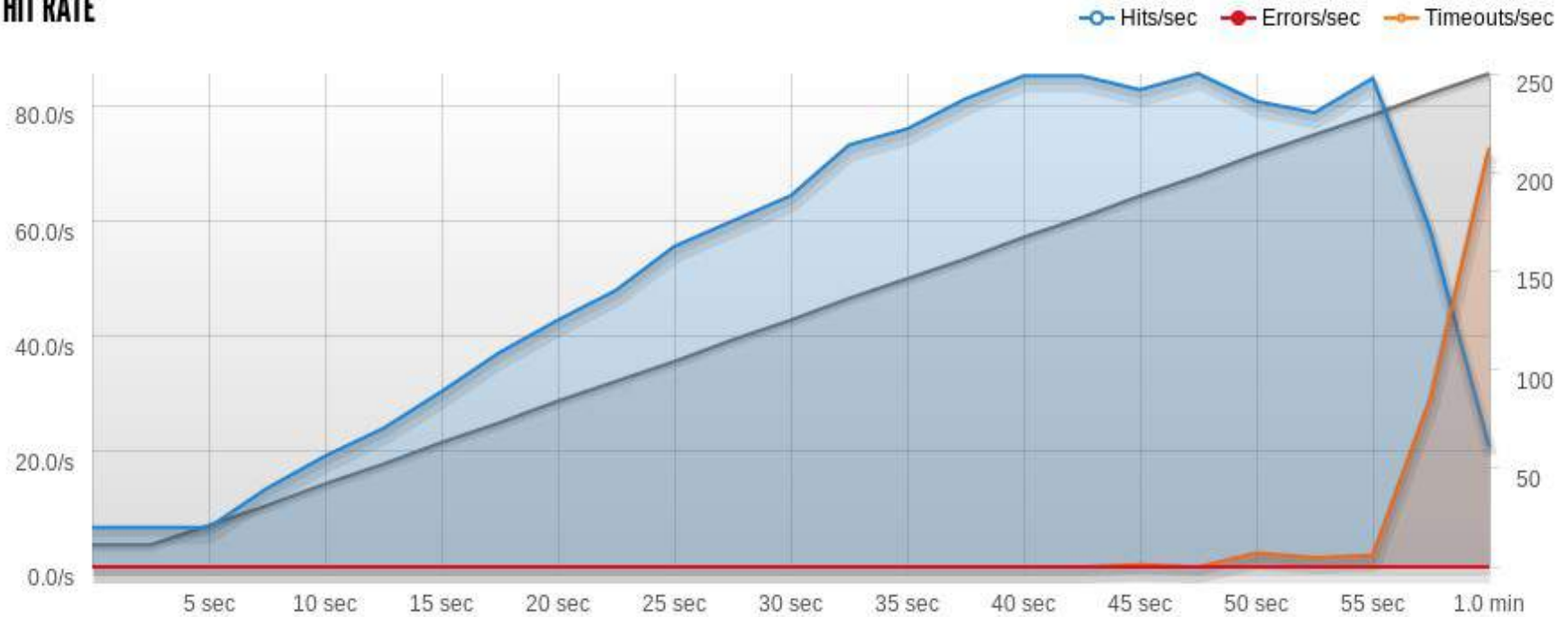

Configuration :

Region – **Virginia** | Duration – **60 Seconds** | Load – **1 To 250 Users**

The max hit rate was : **21** hits per second

odoo

HIT RATE

Hits/sec — Errors/sec — Timeouts/sec
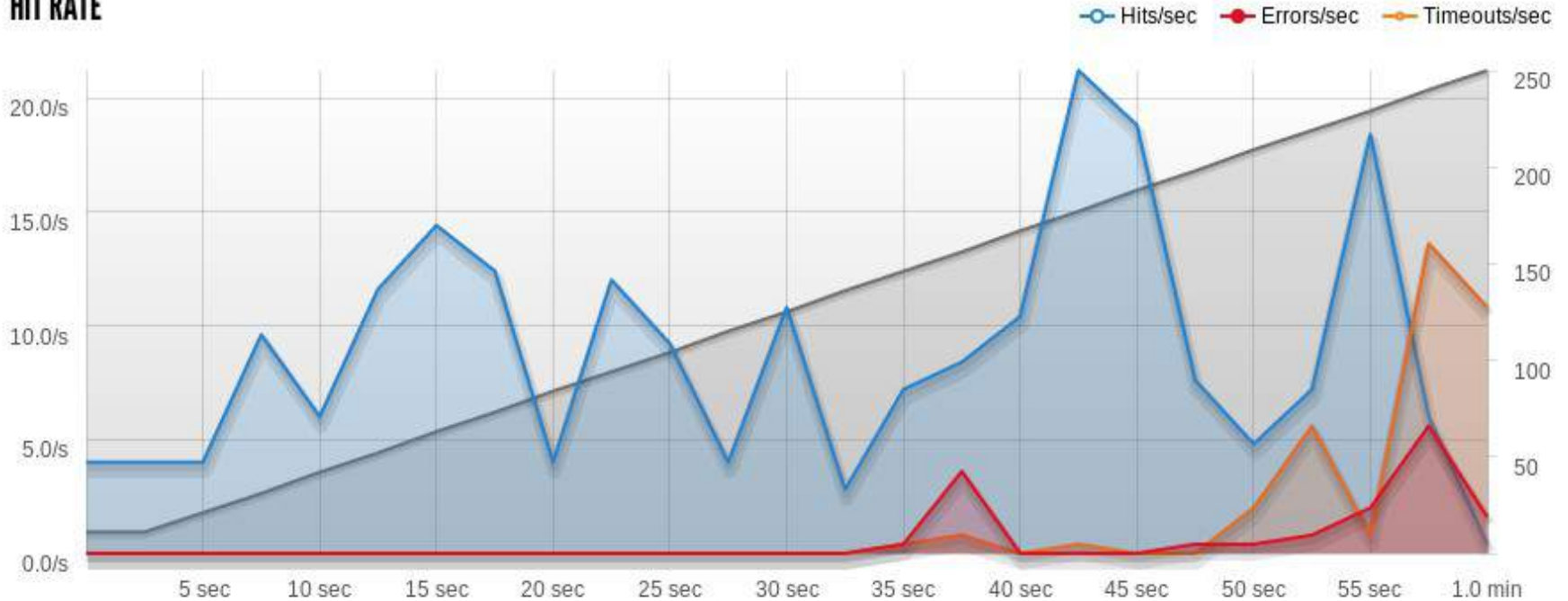
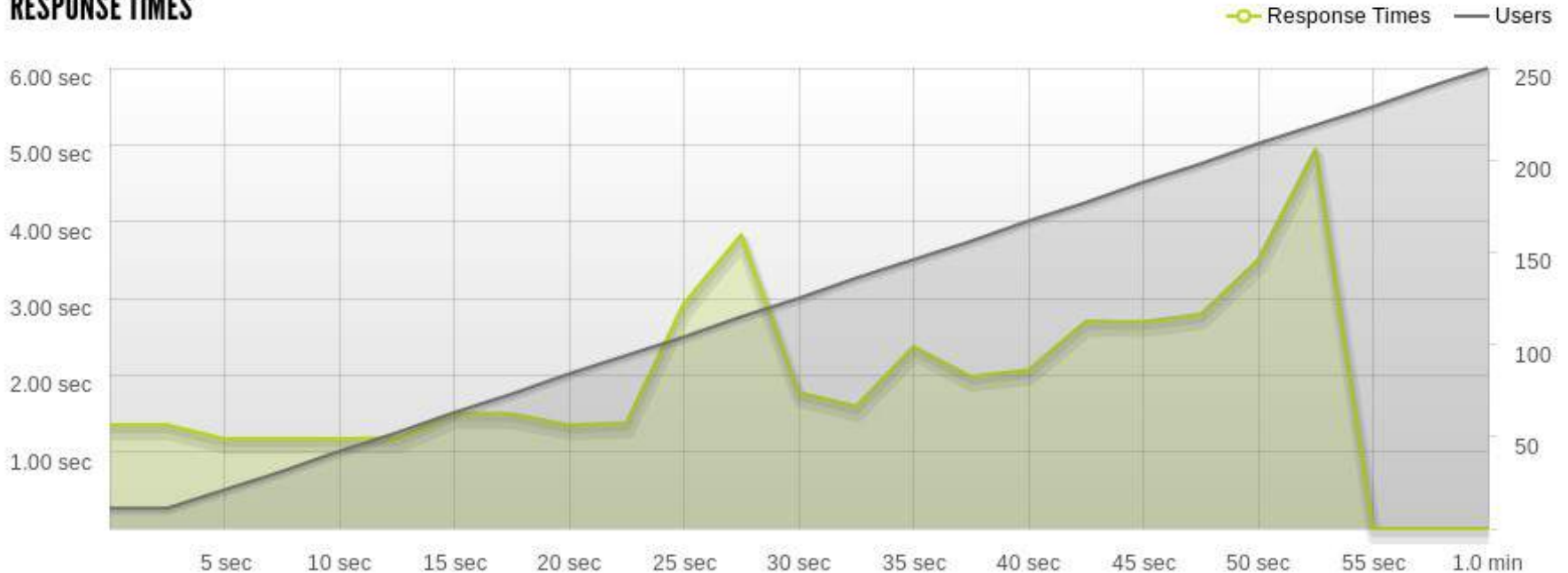**Response Time :**

- Fastest: **1639 ms** | Slowest: **16315 ms** | Average: **7813 ms**

- First time out happened at **35** second at **146** users

- **528** successful hits in **60** sec, avg **0.7 M** hits/day capacity.
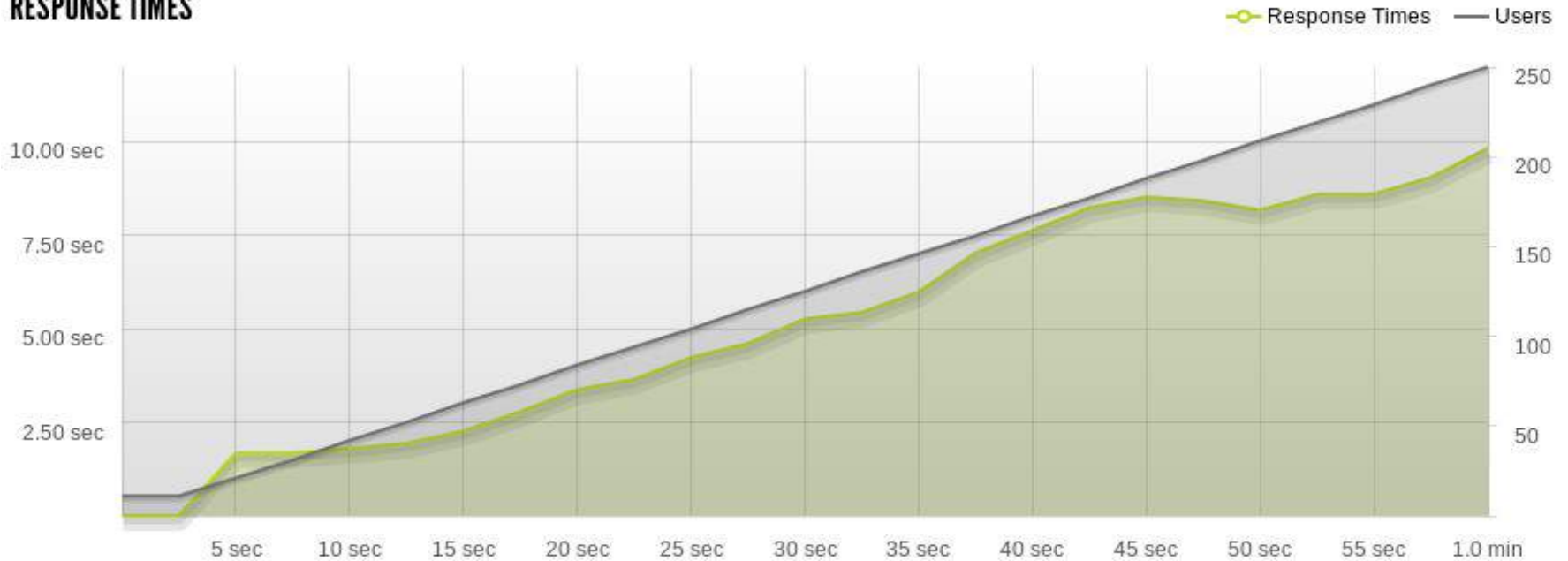
RESPONSE TIMES

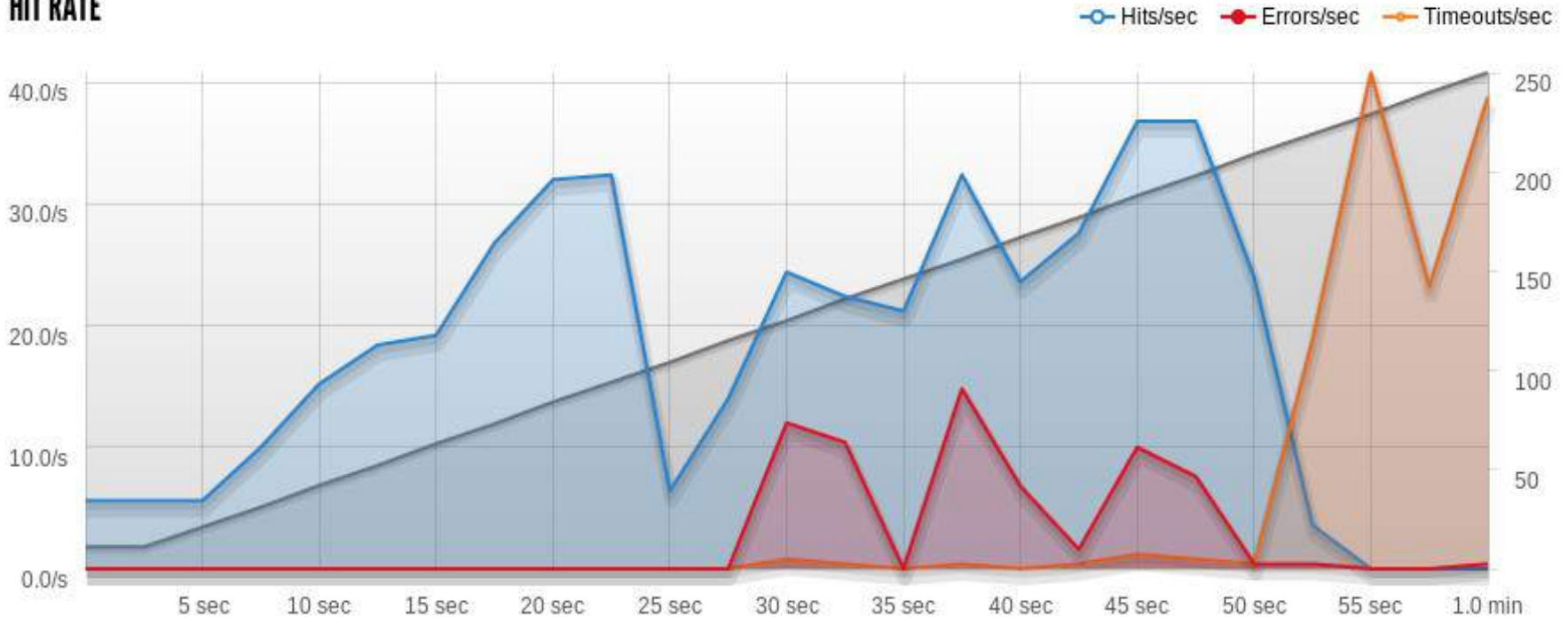**Configuration :**

Region – **Virginia** | Duration – **60 Seconds** | Load – **1 To 250 Users**
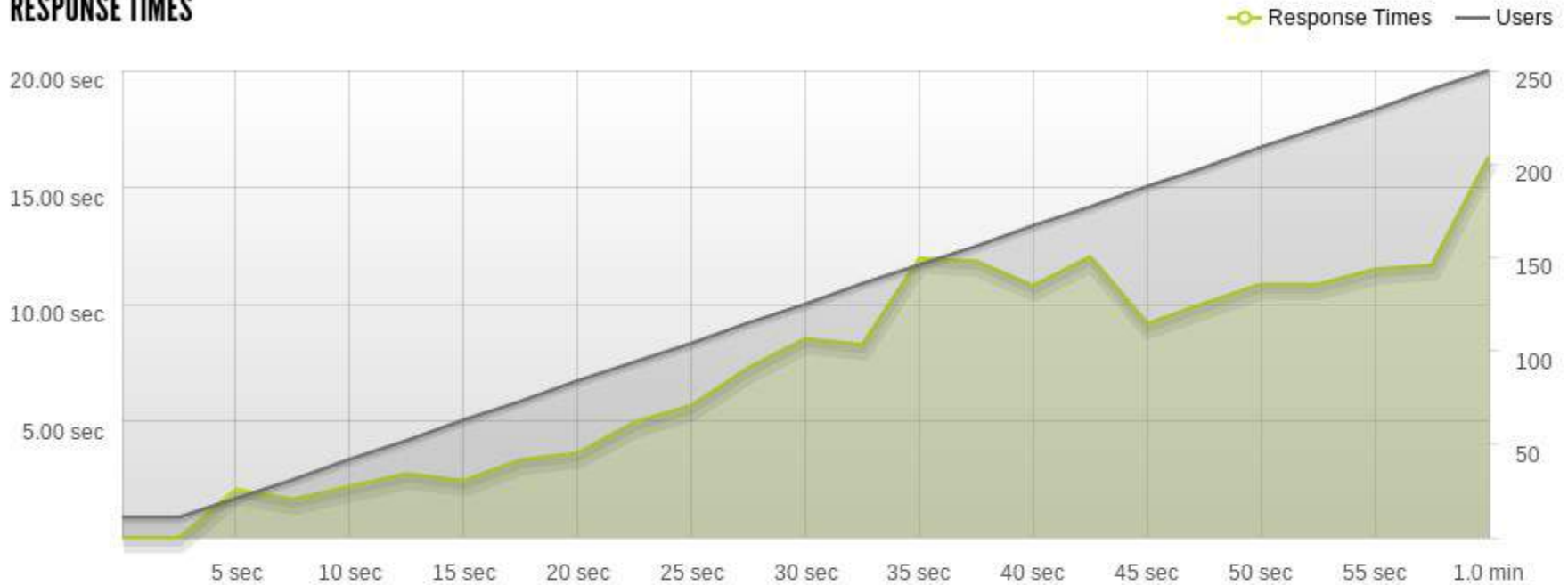
The max hit rate was : 16 hits per second

odoo

Prestashop

HIT RATE

Hits/sec   Errors/sec   Timeouts/sec
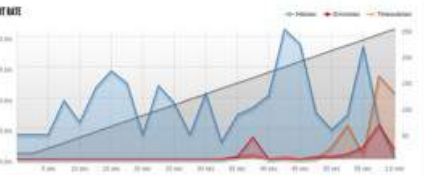
Response Time :

- Fastest: **1678 ms** | Slowest: **9228 ms** | Average: **5598 ms**

- First time out happened at **25** second at **104** users

- **663** successful hits in **60** sec, avg **0.95 M** hits/day capacity.

Load Test Summary

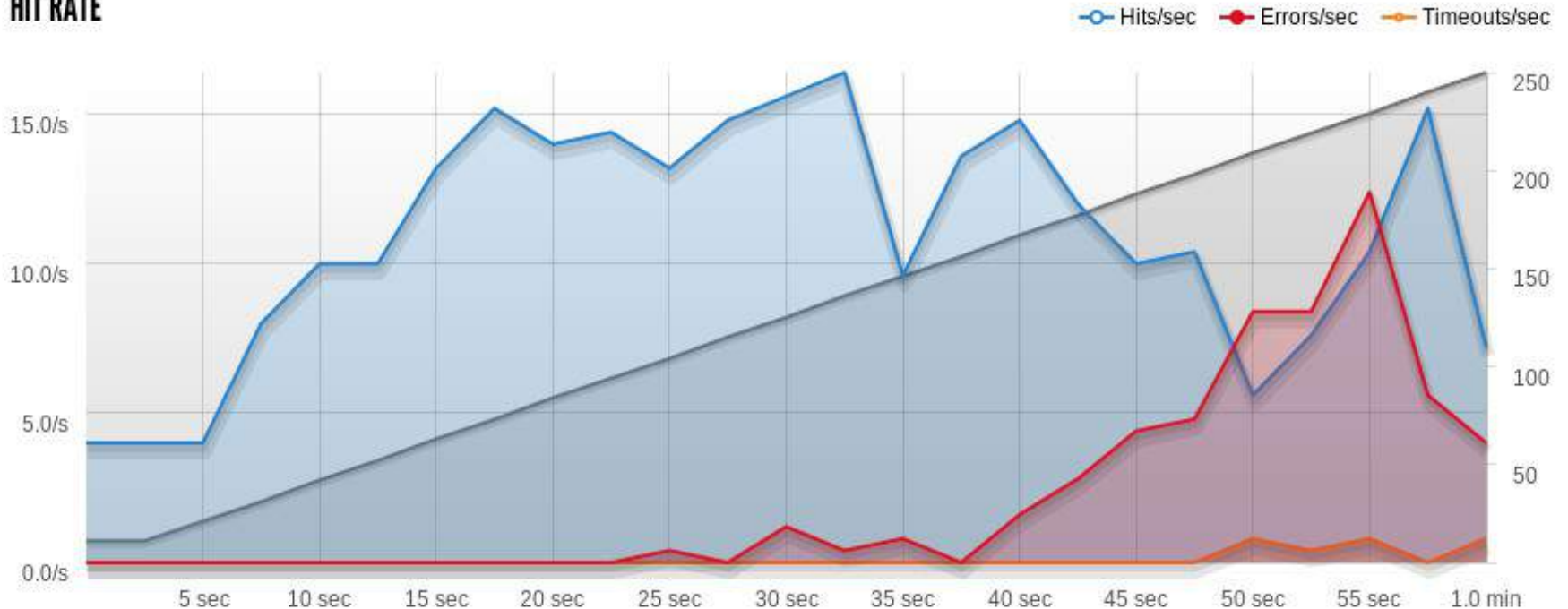| Odoo (ver. SaaS4)	Drupal (ver. 7.27)	Magento (ver. 1.8.1.0)	Prestashop (ver. 1.6.0.6)
Response Time	Response Time	Response Time	Response Time
Hit Rate	Hit Rate	Hit Rate	Hit Rate
Successful Hits : 3646 (98.49%)	Successful Hits : 1083 (69.47%)	Successful Hits : 528 (81.11%)	Successful Hits : 1989 (82.05%)
Timeout : 56 (1.51%)	Timeout : 315 (20.21%)	Timeout : 86 (13.21%)	Timeout : 138 (17.08 %)
Error : 0 (0.0%)	Error : 161 (10.33%)	Error : 37 (5.68%)	Error : 7 (0.87%)
Data Transfer : 50.70 MB	Data Transfer : 39.04 MB	Data Transfer : 7.63 MB	Data Transfer : 62.19 MB
First Time Out : 47.4 sec	First Time Out : 30 sec	First Time Out : 35 sec	First Time Out : 25 sec
at 198 Users	at 125 Users	at 146 Users	at 104 Users

odoo

Speed :

- Odoo is 3x times faster than the Drupal
- Odoo is 6x times faster than the Magento
- Odoo is 2x times faster than the Prestashop

Scalability :

- Odoo timeout at 198 users
- Drupal timeout at 125 users
- Magento timeout at 148 users
- Prestashop timeout at 104 users

W3C Markup Validation

HTML Validation

Using: W3C Markup Validation	Odoo (ver. Saas4)	Drupal (ver. 7.27)	Magento (ver. 1.8.1.0)	Prestashop (ver. 1.6.0.6)
Home Page	29 Errors	0 Errors	2 Errors	4 Error
Product Catalogue	68 Errors	2 Errors	2 Errors	122 Errors
Product	10 Errors	0 Errors	1 Error	4 Errors

Odoo's main problem

- Element meta is missing one or more of the following attributes: content, property.
- An img element must have an alt attribute, except under certain conditions
- The width attribute on the table element is obsolete. Use CSS instead.

Team is working on those issues , will be fixed soon

odoo

Maintainability

lines of code and contributors

Code : using cloc	Odoo (ver. Saas4)	Drupal (ver. 7.27)	Magento (ver. 1.8.1.0)	Prestashop (ver. 1.6.0.6)
JavaScript	49K	124K	95K	56K
CSS	29K	28K	31K	74K
HTML / XML	8K + 376K	16K	6K + 295K	5k + 8K
Python / PHP	114K	58K + 99K	630K	223K

Comparision between :

- Odoo : includes all modules. I.e accounting, wms, mrp, websites, etc…

- Drupal, Magento and Prestashop : only core modules

Odoo is :

- 1.3x times smaller then the drupal

- 5.5x times smaller then the magento

- 1.9x times smaller then the prestashop

odoo

Odoo

In a Nutshell, Odoo...

··· has had 95,464 commits made by 1,054 contributors representing 767,582 lines of code

··· is mostly written in Python with an average number of source code comments

··· has a well established, mature codebase maintained by a very large development team with decreasing Y-O-Y commits

··· took an estimated 207 years of effort (COCOMO model) starting with its first commit in December, 2006 ending with its most recent commit about 1 month ago

Languages

XML	45%	Python	26%
JavaScript	23%	12 Other	6%

Lines of Code

Code   Comments   Blanks

30 Day Summary
Mar 18 2014 — Apr 17 2014

1343 Commits

45 Contributors
including 7 new contributors
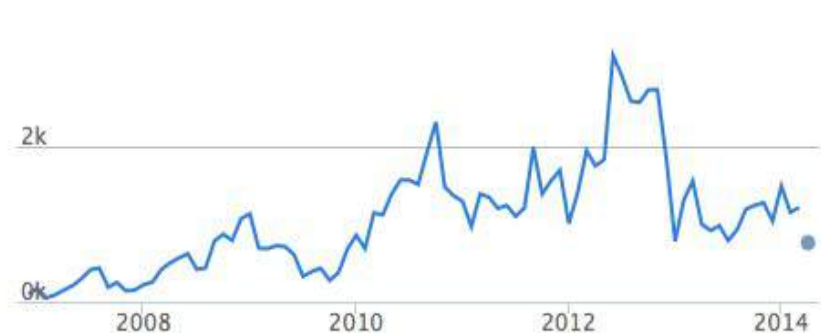
12 Month Summary
Apr 17 2013 — Apr 17 2014

13571 Commits
Down -11979 (46%) from previous 12 months

179 Contributors
Down -87 (32%) from previous 12 months
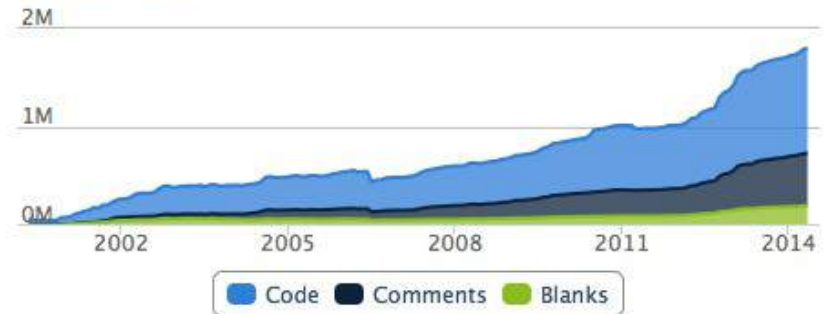
Commits per Month

odoo   Drupal

In a Nutshell, Drupal (core)...

... has had **94,504 commits** made by **149 contributors**
representing **1,060,131 lines of code**

... is **mostly written in PHP**
with **an average number of source code comments**

... has **a well established, mature codebase**
maintained by **a large development team**
with **stable Y-O-Y commits**

... took an estimated **297 years of effort** (COCOMO model)
starting with its **first commit in May, 2000**
ending with its **most recent commit 2 days** ago

Languages

- PHP   89%   JavaScript   6%
- 14 Other   5%

Lines of Code

Code   Comments   Blanks

30 Day Summary
May 1 2014 — May 31 2014

289 Commits
6 Contributors

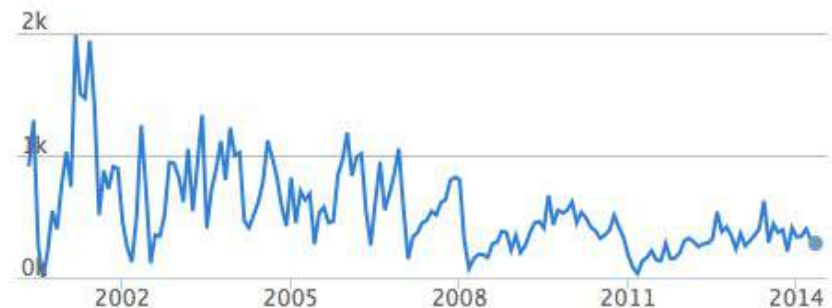### 12 Month Summary
May 31 2013 — May 31 2014

4527 Commits
Up **+215 (4%)** from previous 12 months

9 Contributors
Down **-60 (86%)** from previous 12 months

Commits per Month

odoo | Magento

In a Nutshell, Magento...

... has had **499 commits** made by **8 contributors**
representing **8,331,528 lines of code**

... is **mostly written in PHP**
with **a well-commented source code**

... has **a well established, mature codebase**
maintained by **a average size development team**
with **stable Y-O-Y commits**

... took an estimated **2,536 years of effort** (COCOMO model)
starting with its **first commit in June, 2008**
ending with its **most recent commit 3 days** ago

Languages

■ PHP	70%	▌ XML	17%
■ JavaScript	8%	▌ 9 Other	5%

Lines of Code

10M

2009   2010   2011   2012   2013   2014

■ Code ● Comments ● Blanks

30 Day Summary

Apr 30 2014 — May 30 2014
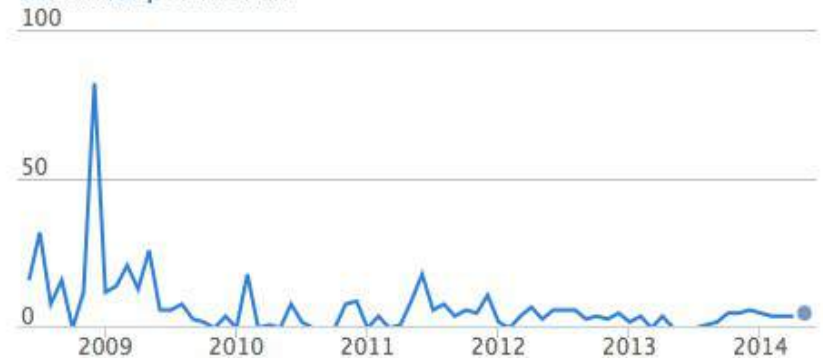
5 Commits
1 Contributor

12 Month Summary

May 30 2013 — May 30 2014

41 Commits
Down -2 (4%) from previous 12 months

4 Contributors
Up +2 (100%) from previous 12 months

Commits per Month

100

50

0

2009   2010   2011   2012   2013   2014

odoo

In a Nutshell, PrestaShop...

- ... has had 25,861 commits made by 277 contributors representing 284,845 lines of code

- ... is mostly written in PHP with an average number of source code comments
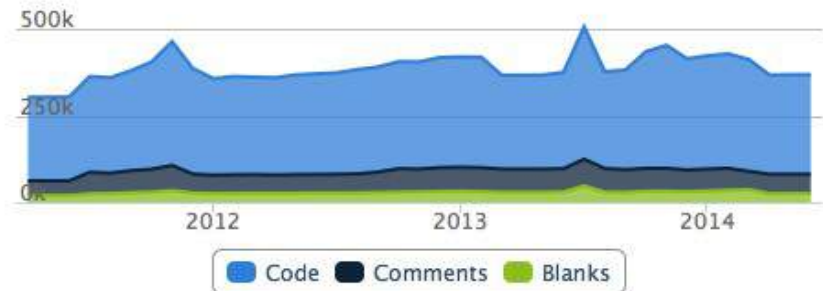
- ... has a codebase with a long source history maintained by a very large development team with stable Y-O-Y commits

- ... took an estimated 74 years of effort (COCOMO model) starting with its first commit in April, 2011 ending with its most recent commit 3 days ago

30 Day Summary

May 2 2014 — Jun 1 2014

344 Commits

34 Contributors
including 12 new contributors
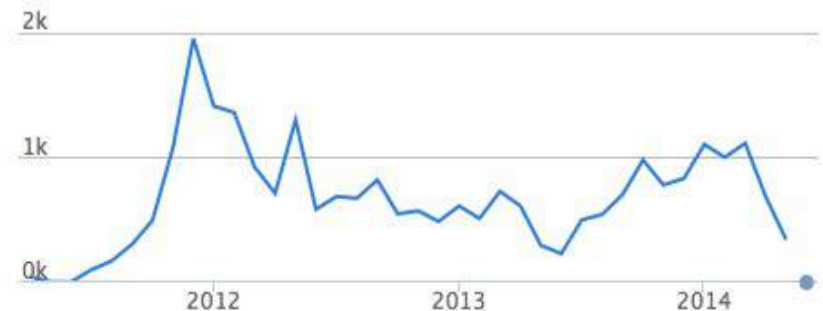
12 Month Summary

Jun 1 2013 — Jun 1 2014

8836 Commits
Up +1689 (23%) from previous 12 months

197 Contributors
Up +106 (116%) from previous 12 months

Languages

PHP	55%	HTML	13%
XML	13%	4 Other	19%

Lines of Code

Code   Comments   Blanks

Commits per Month

Conclusion

Performance :

- Odoo is 3x times faster than the Drupal
- Odoo is 6x times faster than the Magento
- Odoo is 2x times faster than the Prestashop

Scalability :

- Odoo timeout at 198 users
- Drupal timeout at 125 users
- Magento timeout at 148 users
- Prestashop timeout at 104 users

Maintainability :

- 1.3x times smaller then the drupal
- 5.5x times smaller then the magento
- 1.9x times smaller then the prestashop

odoo

Questions ?

odoo

Thank You

Odoo
sales@odoo.com
+32 (0) 2 290 34 90
www.odoo.com

R&D and services office
Chaussée de Namur 40
B-1367 Grand Rosière

Sales office
Avenue Van Nieuwenhuyse 5
B-1160 Brussels